
Safety Data Sheet (SDS)

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product name : EcoClear
Company name : RYOEI U.S.A., INC.
Address : 8545 Challenger Drive Indianapolis, IN 46241
Phone : 317-912-4498
Product details : Alkaline detergent for food and heavy industry

2. HAZARD IDENTIFICATION

GHS CLASSIFICATION

PHYSICAL HAZARDS

Explosive : Not applicable
Flammable Gas : Not applicable
Flammable Aerosol : Not applicable
Combustion Enhancing gas : Not applicable
High pressure gas : Not applicable
Flammable liquids : Not applicable
Flammable solids : Not classified
Self-reactive chemicals : Classification not possible
Pyrophoric liquids : Not applicable
Pyrophoric solids : Not classified
Self-heating chemicals : Not classified
Water-reaction flammable chemical : Not classified
Oxidizing liquids : Not applicable
Oxidizing solids : Classification not possible
Organic peroxides : Not applicable
Corrosive metals : Category 1

HEALTH HAZARDS

Acute toxicity (Oral) : Category 4
Acute toxicity (skin) : Classification not possible
Acute toxicity (Inhalation: gas) : Not applicable
Acute toxicity (Inhalation: steam) : Not applicable
Acute toxicity (Inhalation: dust) : Classification not possible
Acute toxicity (Inhalation: mist) : Not applicable
Skin corrosion / irritation : Category 1
Serious eye damages / eye irritation : Category 1
Respiratory sensitization : Classification not possible
Skin sensitization : Classification not possible
Germ cell mutagenicity : Classification not possible
Carcinogenicity : Classification not possible
Reproductive toxicity : Classification not possible
Specified organ / body toxicity : Classification not possible
Aspiration hazard : Classification not possible

ENVIRONMENTAL HAZARDS

Aquatic toxicity (acute) : Classification not possible

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

SYMBOL



SIGNAL WORD : Danger

HAZARD STATEMENT

- Causes serious eye irritation
- Causes skin irritation
- Harmful if swallowed
- May be corrosive to metals

PRECAUTIONARY STATEMENT

- [Prevention]
 - Do not handle until all safety precautions have been read and understood
 - Obtain special instructions before use.
 - Do not eat, drink or smoke when using this product.
 - Do not breathe dust / fume / mist.
 - Wash hands thoroughly after handling.
 - Avoid inhaling, swallowing, contacting to skin and eye. Wear protective gloves / protective clothing/ eye protection / face shield.
 - Avoid release to the environment.
- [Response]
 - If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - If swallowed: Rinse mouth with water. Do not induce vomiting.
 - If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, If present and easy to do. Continue rinsing.
 - If on skin: Rinse skin with plenty of water / shower.
 - If skin irritation occurs, get medical advice/attention.
 - Take off contaminated clothing and wash before reuse.
 - Get medical advice/attention if you feel unwell.
- [Storage]
 - Storage to keep away heat, moisture and direct sunlight in the closed locations.
- [Disposal]
 - Dispose of contents / container to waste in accordance with local /regional / national/ international regulations (to be specified).

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture	: Mixture	<u>CAS #</u>
Ingredients	: Sodium meta silicate anhydrous	6834-92-0
	: Sodium carbonate	497-19-8
	: EDTA 4Na	64-02-8
	: Non-ionic surfactant	company secret

4. FIRST-AID MEASURES

- If inhaled
 - Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 - Get medical attention / advice immediately.
- If on skin
 - Rinse off thoroughly with plenty of water immediately
 - Remove/Take off immediately all contaminated clothing.
 - If skin irritation or rash occurs, get medical advice/attention.

- Take off contaminated clothing and wash before reuse.
 - If in eyes
 - Even if very small amount contact, rinsing by clean water for at least 15 minutes, and get ophthalmologist's examination.
 - Rinse cautiously with water for several minutes.
 - Remove contact lenses, if present and easy to do. Continue rinsing.
 - If eye irritation persists, get medical advice/attention.
 - If swallowed
 - After rinse mouth immediately with water, give about 250 ml of water or milk to thin in the stomach, and do not induce to vomit.
 - Moreover, do not give anything by mouth to the patient when not conscious.
 - Receive the doctor's treatment promptly.
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5. FIRE-FIGHTING MEASURES

- Extinguishing • Common extinguishing agents can be used, such as water, foam, powder, and carbon dioxide.
 - Method • This product is nonflammable. But in case of fire, move to safety place.
In case not able to move away, spray water to cool down the product.
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6. ACCIDENTAL RELEASE MEASURES

- Warning against humans
 - Wear protector, such as goggles, rubber gloves, rubber boots, protective clothing/mask.
 - Prohibit the entry of non-participants to put the rope around the place and the leakage.
 - Warning against environment
 - Prevent the direct inflow into river and irrigation canal. (When powder). Not applicable at the time of dilution, please also check local laws and regulations in that case.
 - Removal
 - Collect the leakage product into vacant container as much as possible. After this, wash away the left of leakage with the plenty of water. Neutralize washing machine with acid (dilute sulfuric acid) before drainage.
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7. HANDLING AND STORAGE

- Handling
 - Wear protective equipment measures (goggles, rubber gloves/boots).
 - Do not handle until all safety precautions have been read and understood.
 - Do not contact/breathe/swallowing.
 - Wash hands thoroughly after handling.
 - Do not use for purpose other than absolute.
 - Do not mix with other washing agents or chemicals.
 - Do not subdivide or transference to other containers (including food containers), in order to avoid accident such as ingestion.
 - Wash well the used container after use.
 - Fasten the cap during transportation and storage.
 - Be aware not to spill or lay down.
 - Neutralize when drainage.
 - Storage
 - Storage to keep away heat, moisture and direct sunlight in the closed locations.
 - Keep out of children.
 - Keep the container tightly sealed.
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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Equipment : Set up facilities for washing near the location to be used the product.
- Control limit : Not established
- Occupational exposure limit : Not established
- Personal protective equipment : Hand protector: Rubber gloves
: Eye protector: Protective glasses
: Skin/body protector : Protective cloth, rubber boots

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: White to light yellow powder
pH	: 12.0~13.0 (1% solution at 25°C)
Specific gravity	: No Data
Vapor density	: No Data
Solubility in solvents	: Water soluble
Flash point	: Not applicable
Odor	: Nearly odorless
Freezing point	: No Data
Boiling point	: No Data
Explosion properties	: No Data
Vapor pressure	: No Data
water partition coefficient	: No Data
autoignition temperature	: No Data
Decomposition temperature	: No Data
Viscosity	: No Data
Arsenic unit	: < 0.06mg/L (at 150 times dilution) (The Japanese Standards of Health and Welfare Notification No. 370 food additives standard detergent ingredients Issue)
Heavy metal	: <1.mg/L(at 150 times dilution) (The Japanese Standards of Health and Welfare Notification No. 370 food additives standard detergent ingredients Issue)

10. STABILITY AND REACTIVITY

Stability	: Keep stable under the condition, which is normal handling (indoor, room temperature).
Reactivity	: Neutralization reaction to generate heat with acidic substances.
Conditions to avoid	: reaction with acid, direct sunlight and unsealed storage. : wet atmosphere
Materials to avoid	: Metals, lacquer, such as tin and zinc. : Avoid to use of non-specified diluted levels for aluminum, copper, and copper alloys.
Hazardous decomposition	: No particularly

11. TOXICOLGICAL INFORMATION

Acute toxicity (Oral)	: Category 4 (ATE; 300< Category≤42000 mg/kg)
Local effect	: To skin ·There is a strong stimulating effect. : To eye ·Affect the conjunctiva and cornea with a sharp pain. : Ingestion ·Burning sensation in the mouth of the esophagus and stomach : Inhalation ·If you inhale the mist, stimulate nose, throat, and bronchopulmonary.
Sensitization	: No data
Long-term toxicity	: No data
Chronic toxicity	: No data

12. ECOLOGICAL INFORMATION

Mobility	: No data
Residual degradable	: COD Mn94ppm (0.1% solution; JIS K0102 1998)
Bioaccumulation	: No data
Ecotoxicity	: Due to alkaline, affect aquatic organisms in case of spill.

13. DISPOSAL CONSIDERATIONS

Residual waste	: If a small amount, dilute with water first. Followed by neutralization with acid (such as dilute sulfuric acid). : If a large amount, contact waste disposal company who has permission of
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Contaminated package : the prefectural governor.
: Wash well before dispose the container after used.

14. TRANSPORT INFORMATION

International regulations : Transport in accordance with your country and regions regulations (RID,ADR, DOT etc.).
Air transport is IATA and maritime transport follows the rules of IMDG.

Domestic regulations : The product is not under any domestic regulation.

Specific conditions of transport and safety measures:

- Ensure that there is no damage, erosion and leakage on the container before transport.
- Handling cargo carefully to avoid any damage to containers.
- Landing cargo to prevent collapsing without falling, laying down, and damage.
- Avoid direct sunlight during transportation.
- Avoid exposure to water

HS code : 3402.2

15. REGULATORY INFORMATION

Water Quality Pollution Control Act : Applicable

* This product is classified according to the Japanese laws, regulations and guidelines.

16. Others information

Contact : RYOEI U.S.A., INC
: 317-912-4498

References

- Creating a Material Safety Data Sheet guidelines (Revision)
[Japan Chemical Industry Association(October,2013)]
- JIS Z 7253:2012/Material Safety Date Sheet (SDS)
- Poisonous and Deleterious Substances Control guidelines [Jihou]
- 14501 Chemical Product [The Chemical Daily Co.]
- Directory of product specific regulations for chemical [The Chemical Daily Co.]
- Hazardous marine transportation and storage rules (rev. 11) [Kaibundou]
- Technology and pollution control laws (Water quality)
[Industrial Pollution Control Association]
- Promote and improve understanding and management of emissions of
certain chemicals into the environment [Japanese Standards Association]

*All specifications are to be created based on the information and data available, and this may be revised without notice
All chemicals may have unknown hazards and hazards. Take safety measures suitable for their intended use and usage,
and handle them properly at your own risk.
